DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
Office of Structural Materials
Quality Assurance and Source Inspection

Bay Area Branch
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Contract #: 04-0120F4
Cty: SF/ALA Rte: 80 PM: 13.2/13.9
File #: 69.15

SOURCE INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter
Address: 333 Burma Road
City: Oakland, CA 94607

Report No: SIR-003005
Date Inspected: 05-Dec-2010

Project Name: SAS Superstructure
Prime Contractor: American Bridge/Fluor Enterprises, a JV
Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island

OSM Arrival Time: 700
OSM Departure Time: 1900
Location: Changxing Dao, Shangha

Quality Control Contact:	Don Walton	**Quality Control Present:**	☑ Yes ☐ No
Material transfer:	☐ Yes ☐ No ☑ N/A	**Sampled Items:**	☐ Yes ☐ No ☑ N/A
Stock Transfer:	☐ Yes ☐ No ☑ N/A	**OK to Cut:**	☐ Yes ☐ No ☑ N/A
Rebar Test Witness:	☐ Yes ☐ No ☑ N/A	**Delayed/Cancelled:**	☐ Yes ☐ No ☑ N/A
Other:	Coatings Inspection		
Bridge No:	34-0006	**Component:**	OBG, Sub-Assemblies and Office.
Bid Item:	77, 78, 79	**Lot No:**	

Summary of Items Observed:

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Kenneth W. Cason Jr. arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections is to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

OBG

11AE External Corner Unit, 11BE/11CE and 11BW/11CW External Weld Seam Top Surface, NOI Number 5235: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on 11AE External Corner Unit, 11BE/11CE and 11BW/11CW External Weld Seam Top Surface. No discrepancies noted but ambient conditions are unsatisfactory. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point after verification of ambient conditions.

12CE OBG External Surfaces, NOI Number 5238: In accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives recorded the results of adhesion testing. 12CE OBG External Surfaces x6 readings recorded are 6.09 mPa 100% c, 10.506 mPa 85% c, 8.80 mPa 100% c, 13. 21mPa 90% c, 13.71 mPa 95% c and 8.26 mPa 95% c. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

11AE External Corner Unit, 11BE/11CE and 11BW/11CW External Weld Seam Top Surface, NOI Number 5239:

In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on 11AE External Corner Unit, 11BE/11CE and 11BW/11CW External Weld Seam Top Surface. Test results recorded x3 surface profile readings in the range of 78 to 83 µm. No discrepancies noted. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

12CW OBG Entire Internal Ceiling Surface, NOI Number 5240: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on 12CW OBG Entire Internal Ceiling Surface. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to insufficient surface preparation (grinding, weld repairs and additional blasting required).

12CE OBG External Surfaces, NOI Number 5242: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on 12CE OBG External Surfaces were tested in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT). ABF and ZPMC Quality Assurance/Control representatives noted discrepancies including low DFT readings, dry spray and holidays (misses). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding with process to the next check point.

Sub-Assemblies (OBG)

Crash Barriers Internal Surfaces (23 Each), NOI Number 5236: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Crash Barriers Internal Surfaces (23 Each) for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to holidays and low DFT readings.

Crash Barriers Internal Surfaces (23 Each), NOI Number 5237: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Crash Barriers Internal Surfaces (23 Each) for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to incomplete caulking application.

Office

Attend to report writing and photo documentation.

Note: Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact , who represents the Office of Structural Materials for your project.

SOURCE INSPECTION REPORT

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Inspected By:	Cason,Kenneth	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer